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<u>CLAIMS</u>

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What is claimed is:

1. A method for generating a fast busy signal in a data network comprising: receiving a request to make a connection from a calling device to a called device at a predetermined level of quality of service (QOS);

retrieving resource information from a model to determine whether resources are available to make the connection at the predetermined level of QOS; and

providing a fast busy signal to the calling device if there are insufficient available resources to make the connection at the predetermined level of QOS.

- 2. The method of claim 1 wherein the connection is over the Internet.
- 3. The method of claim 1 wherein the connection is for a voice over data service.
- 4. The method of claim 3 wherein the voice over data service is selected from a group consisting of voice over IP, voice over xDSL, and voice over ATM.
 - 5. The method of claim 1 wherein the fast busy signal is an audio tone.
 - 6. The method of claim 1 wherein the fast busy signal is a data packet.
 - 7. The method of claim 1 wherein the fast busy signal is a dialog box.
 - 8. The method of claim 1 wherein the resources include available bandwidth.
- The method of claim 1 wherein the model is in Resource Description Framework (RDF) format.
- 10. The method of claim 1 wherein the model contains information about a node.

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- 11. The method of claim 1 wherein the model contains information about the calling device.
 - 12. A data network comprising:
 - a softswitch;
 - a calling device and a called device;
 - a communications path between the calling and called devices; and a resource information system (RIS) coupled to the softswitch, the RIS having access to a model containing information about resources on the data network, wherein the RIS is operable to inform the softswitch to initiate the sending of a fast busy signal to the calling device if there are insufficient resources to make a connection along the communications path at a predetermined level of quality of service (QOS).
- The data network of claim 12 wherein the model is in Resource
 Description Framework (RDF) format.
 - 14. The network of claim 12 wherein the calling device includes a computer.
- 15. The network of claim 12 wherein the calling device includes a traditional telephone.
- 16. The network of claim 12 wherein the communications path is part of the Internet.
- 17. The data network of claim 12 wherein the connection is for a voice over data service.
- 18. The network of claim 17 wherein the voice over data service includes voice over IP.

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A method for generating a fast busy signal comprising: providing a softswitch;

requesting the softswitch to make a connection between a first device and a second device at a predetermined level of quality of service (QOS);

querying a mode to determine whether there are available resources to make the connection at the predetermined level of QOS; and

informing the switch to initiate the generation of a fast busy signal if the available resources are insufficient to make the connection at the predetermined level of QOS.

- 20. The method of claim 19 wherein the connection is for a multimedia service.
- 21. The method of claim 19 wherein the connection is for a voice over data service.
- 22. The method of claim 21 wherein the voice over data service includes voice over IP.
 - 23. The method of claim 19 wherein the connection is over the Internet.
 - 24. The method of claim 19 wherein the QOS includes bandwidth.